SEQUENCE LISTING

<110> Lawrence, David S

<120> Protein Kinase Inhibitors and Methods for Identifying Same

<130> 96700/1165

<140> US 10/589,029
<141> 2007-06-21

<150> US 60/544,376
<151> 2004-02-13

<150> PCT/US05/004410
<151> 2005-02-14

<160> 17

<170> PatentIn version 3.3

<210> 1
<211> 8
<212> PRT
<213> unknown

<220>
<223> sequence in protein kinase C-alpha inhibitor

<220>
<221> misc_feature
<222> (4)..(4)
<223> X= any amino acid or amino acid mimetic

<220>
<221> misc_feature
<222> (5)..(5)
<223> X= A or a Dap derivative

<220>
<221> misc_feature
<222> (6)..(6)
<223> X= F, L or I

<220>
<221> misc_feature
<222> (7)..(7)
<223> X= R or K

<220>
<221> misc_feature
<222> (8)..(8)
<223> X= A or a Dap derivative

<400> 1

Ala Arg Arg Xaa Xaa Xaa Xaa Xaa
1   5

<210> 2
<211> 9

```
<212>  PRT
<213>  unknown

<220>
<223>  sequence in protein kinase C-alpha inhibitor


<220>
<221>  misc_feature
<222>  (5)..(5)
<223>  X = A or Dap

<220>
<221>  misc_feature
<222>  (8)..(8)
<223>  X = Q or Dap

<400>  2

Ala Arg Arg Gly Xaa Leu Arg Xaa Ala
1               5


<210>  3
<211>  5
<212>  PRT
<213>  unknown

<220>
<223>  preferred consensus sequence for protein kinase C-alpha


<220>
<221>  misc_feature
<222>  (4)..(4)
<223>  X= F, L or I

<220>
<221>  misc_feature
<222>  (5)..(5)
<223>  X= R or K

<400>  3

Lys Gly Ser Xaa Xaa
1               5


<210>  4
<211>  6
<212>  PRT
<213>  unknown

<220>
<223>  consensus sequence for protein kinase C-beta I, protein kinase
       C-beta II and protein kinase C-gamma.

<400>  4

Arg Lys Gly Ser Phe Lys
1               5
```

```
<210>   5
<211>   5
<212>   PRT
<213>   unknown

<220>
<223>   consensus sequence for protein kinase C-delta


<220>
<221>   misc_feature
<222>   (1)..(1)
<223>   X= K or Q

<220>
<221>   misc_feature
<222>   (5)..(5)
<223>   X= F or M

<400>   5

Xaa Gly Ser Phe Xaa
1               5


<210>   6
<211>   5
<212>   PRT
<213>   unknown

<220>
<223>   consensus sequence for protein kinase C-epsilon


<220>
<221>   misc_feature
<222>   (2)..(2)
<223>   X= M or K

<220>
<221>   misc_feature
<222>   (4)..(4)
<223>   X= F or A

<220>
<221>   misc_feature
<222>   (5)..(5)
<223>   X= G, Y, D or F

<400>   6

Lys Xaa Ser Xaa Xaa
1               5


<210>   7
<211>   6
<212>   PRT
<213>   unknown

<220>
<223>   consensus sequence for protein kinase C-eta
```

<400> 7

Arg Arg Ser Phe Arg Arg
1   5

<210> 8
<211> 5
<212> PRT
<213> unknown

<220>
<223> consensus sequence for protein kinase C-zeta

<220>
<221> misc_feature
<222> (1)..(1)
<223> X = R, Q, K or E

<220>
<221> misc_feature
<222> (2)..(2)
<223> X = M or G

<220>
<221> misc_feature
<222> (4)..(5)
<223> X = F or M

<400> 8

Xaa Xaa Ser Xaa Xaa
1   5

<210> 9
<211> 5
<212> PRT
<213> unknown

<220>
<223> consensus sequence for protein kinase C-mu

<220>
<221> misc_feature
<222> (1)..(1)
<223> X= Q, K, E or M

<220>
<221> misc_feature
<222> (4)..(4)
<223> X= V, M or L

<220>
<221> misc_feature
<222> (5)..(5)
<223> X= A, M or V

<400> 9

Xaa Met Ser Xaa Xaa

1   5


```
<210>   10
<211>   7
<212>   PRT
<213>   unknown

<220>
<223>   consensus substrate sequence for protein kinase C-alpha


<220>
<221>   misc_feature
<222>   (6)..(6)
<223>   X= F, L or I

<400>   10

Arg Arg Lys Gly Ser Xaa Arg
1               5


<210>   11
<211>   5
<212>   PRT
<213>   unknown

<220>
<223>   sequence of peptide substrate used for PKC alpha, beta and gamma
        assays

<400>   11

Ser Phe Arg Arg Arg
1               5


<210>   12
<211>   11
<212>   PRT
<213>   unknown

<220>
<223>   sequence of peptide substrate for PKC epsilon and zeta assays

<400>   12

Pro Arg Lys Arg Glu Gly Ser Val Arg Arg Arg
1               5                   10


<210>   13
<211>   9
<212>   PRT
<213>   unknown

<220>
<223>   starting consensus sequence peptide for derivation of PKC
        inhibitors

<400>   13
```

Arg Arg Gln Gly Ala Phe Met Tyr Phe
1   5

<210>   14
<211>   12
<212>   PRT
<213>   unknown

<220>
<223>   sequence of peptide substrate for synthesis of PKC isoforms

<400>   14

Pro Arg Lys Arg Gln Gly Ser Val Arg Arg Arg Val
1   5   10

<210>   15
<211>   6
<212>   PRT
<213>   unknown

<220>
<223>   sequence for peptide substrate for PKC alpha, beta and gamma
        assays

<400>   15

Ser Phe Arg Arg Arg Arg
1   5

<210>   16
<211>   12
<212>   PRT
<213>   unknown

<220>
<223>   sequence for peptide substrate for PKC delta, epsilon, theta,
        eta, iota and zeta assays

<400>   16

Pro Arg Lys Arg Glu Gly Ser Val Arg Arg Arg Val
1   5   10

<210>   17
<211>   9
<212>   PRT
<213>   unknown

<220>
<223>   protein sequence in inhibitor of PKC

<220>
<221>   misc_feature
<222>   (5)..(5)
<223>   X = a Dap derivative

<400>   17

Arg Arg Gln Gly Xaa Phe Met Tyr Phe
1   5